PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 50.450PCT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month/year)		
PCT/US 00/29657	27/10/2000	28/10/1999	
Applicant			
MINIMED, INC.			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Authorsmitted to the International Bureau.	nority and is transmitted to the applicant	
	of a total of6sheets. a copy of each prior art document cited in this	report.	
Basis of the report a. With regard to the language, the ilanguage in which it was filed, unle	nternational search was carried out on the bases otherwise indicated under this item.	is of the international application in the	
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this	
b. With regard to any nucleotide and was carried out on the basis of the contained in the internation filed together with the internation furnished subsequently to	sequence listing: nal application in written form. national application in computer readable form this Authority in written form.	ternational application, the international search	
-	this Authority in computer readble form.	and an house little flasher to the	
international application as	sequently furnished written sequence listing do filed has been furnished.	es not go beyond the disclosure in the	
the statement that the infor furnished	mation recorded in computer readable form is	identical to the written sequence listing has been	
	d unsearchable (See Box I).		
3. X Unity of invention is lack	ing (see Box II).		
4. With regard to the title,			
the text is approved as sub	• • • • • • • • • • • • • • • • • • • •		
X the text has been established by this Authority to read as follows: PLUNGER PLUG WITH STIFFENING INSERT			
PHONGER PHOG WITH STIFF	ENING INSERT		
5. With regard to the abstract,			
the text is approved as sub	• • • • • • • • • • • • • • • • • • • •		
the text has been established within one month from the control of	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	r as it appears in Box III. The applicant may, ort, submit comments to this Authority.	
6. The figure of the drawings to be publis	hed with the abstract is Figure No.	14	
. as suggested by the applica	ant.	None of the figures.	
because the applicant failed	•		
because this figure better c	haracterizes the invention.		

International application No.

INTERNATIONAL SEARCH REPORT

PCT/US 00/29657

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A piston comprises a first member (1404) and a second member (1201). The first member (1404) has an external proximate side and an external distal side. The external proximate side is adapted to contact the fluid and is made of a material having a first stiffness. The second member (1201) has a first side and a second side and is at least partially disposed within the first member (1404). The first side of the second member (1201) is adjacent to the external proximate side of the first member (1404) and is made of a material having a stiffness which is greater than the first stiffness.

International application No. PCT/US 00/29657

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuati n of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-36

Plunger plug with stiffening member.

2. Claim : 37

Method of terminating power to a pump motor when a force exceeds a certain value.

International Application No PCT/US 00/29657

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61M5/315

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 $\,$ A61M $\,$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	onation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 547 201 A (VILLETTE ALAIN) 14 December 1984 (1984-12-14)	1-5, 7-10,34
Υ	the whole document	6,20, 25-29, 35,36
Υ	US 1 540 126 A (HEIN GEORGE N) - 2 June 1925 (1925-06-02) page 1, line 2-105; figures 1-3	6
Υ	US 5 947 935 A (HITCHINS MARK W ET AL) 7 September 1999 (1999-09-07) abstract; figure 1	20, 25-29,35
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	-/	

	
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 6 June 2001	Date of mailing of the international search report 1 3. 06. 01
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Nielsen, M

Patent family members are listed in annex.

Further documents are listed in the continuation of box C.

International Application No PCT/US 00/29657

		PCT/US 00/29657
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	The second secon
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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	abstract; figures 19,22	
X	FR 2 750 961 A (AUBERT GUY) 16 January 1998 (1998-01-16) the whole document	1,2,4,5, 7-9,34
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